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L44: Entry 1 of 1

File: JPAB

Sep 26, 1986

PUB-NO: JP361216851A

DOCUMENT-IDENTIFIER: JP 61216851 A

TITLE: BRAZING METHOD OF TI OR TI ALLOY AND STAINLESS STEEL

PUBN-DATE: September 26, 1986

## INVENTOR-INFORMATION:

NAME

COUNTRY

TANAKA, HITOSHI

## ASSIGNEE-INFORMATION:

NAME

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SEIKO EPSON CORP

APPL-NO: JP60057957

APPL-DATE: March 22, 1985

US-CL-CURRENT: 228/208; 228/262.43

INT-CL (IPC): B23K 1/20; G04B 37/22

## ABSTRACT:

PURPOSE: To make easy a brazing method and to improve workability and mass productivity by forming preliminarily a protective film for preventing reaction with gas such as oxidation, nitriding or hydrogenation in the stage of brazing on a brazing surface or the entire part.

CONSTITUTION: Ni plating is preliminarily formed to  $\geq 0.1\mu\text{m}$  on the brazing surface or the entire part of Ti or Ti alloy prior to the brazing stage then Ni-Pd alloy plating contg.  $\geq 30\text{wt}\%$  Pd is formed thereon to  $\geq 0.3\mu\text{m}$ . The satisfactory brazing is thus easily made possible without a costly installation.

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## 2. Document ID: US 6554178 B1

L42: Entry 2 of 19

File: USPT

Apr 29, 2003

DOCUMENT-IDENTIFIER: US 6554178 B1

TITLE: Battery case feedthrough

Brief Summary Text (5):

Ceramic to stainless steel and ceramic to titanium bonds are particular examples of ceramic to metal bonds. Braze bonding, for example, aluminum oxide and zirconium oxide ceramics to metals, including titanium, stainless steel, molybdenum, tantalum, and cobalt-chromium alloys, can be done using a braze, comprising 30% nickel and 70% titanium (U.S. Provisional Patent Application, Serial No. 60/126,531; PCT Application WO00/56677). Another example of a braze bond includes the preferred method for joining zirconium oxide containing 3% yttrium to preferably a metal alloy, namely, titanium and niobium (55% Ti and 45% Nb), using the nickel-titanium braze (50% Ni and 50% Ti) (U.S. Provisional Patent Application, Serial No. 60/126,514; PCT Application WO00/56395).